



Hecla Mining Company

REDCO SILVER, INC.
Escalante Silver Mine

March 22, 1985

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Atten: Lowell Braxton

Dear Mr. Braxton,

As requested, I have enclosed the 1984 Annual Operations and Progress Report (MR Form 3), along with maps showing our mine and the surrounding areas. You might note that this is an underground mine, therefore, we do not have the large surface disturbances and large top soil stockpiles associated with open pit mines.

If you have any questions or I can help you in any way, please do not hesitate to call.

Sincerely,

Donald W. Morrison
Mine Engineer

RECEIVED

MAR 26 1985

DIVISION OF OIL
GAS & MINING

MR Form 3
(Revised 1984)

ANNUAL OPERATIONS AND PROGRESS REPORT

From Month/Year Jan. 1984
to Month/Year Dec. 1984

(To be submitted for each mining operation at the end of each calendar year to the Division at this address:)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
(801) 538-5340

Redco Silver, Inc. -
a subsidiary of
OPERATOR: Hecla Mining Company MINE NAME: Escalante Silver Mine
ADDRESS: P.O. Box 308 Enterprise, Utah 84725

PERMIT NUMBER AND DATE OF PERMIT: ACT/021/004

REPRESENTATIVE: Donald W. Morrison

SECTION(S): 2 TOWNSHIP(S): 36S RANGE(S): 17W

MINERAL(S) MINED: Silver

STATE AND/OR FEDERAL MINERAL LEASE NUMBERS: ML-17664 and ML-17663
ML-40473, ML-40474, ML-40475, ML-40343, ML-36316, ML-40476

SPECIAL USE PERMITS AND/OR RIGHTS-OF-WAY: BLM Permit U-38286 and U-46808
Building Permit 0241

Section 40-8-15 and Rule M-8 of the Utah Mined Land Reclamation Act, requires each operator to include with this report an up-dated map and plan prepared in accordance with Rule M-3, as outlined in the requirements for annual report maps in Appendix I, providing a detailed status of all mining and reclamation activities which have occurred during the past year.

The report should include:

MINING:

(a) Tabulation of acreage disturbed (by pits, roads, facilities, etc.) during the report period with illustration on a current map.

<u>Disturbance</u>	<u>Acreage</u>
Pit	n/a
Roads	--
Facilities	--
Waste Dumps	3 acres
Other-drill sites and trenches for geologic mapping	23.6 acres

This is an underground mine
with very little surface
disturbance related to the
mine operation

(b) Tabulation of acreage affected to date (by years).

<u>Date by Year</u>	<u>Acreage (Total)</u>
1975	
1976	
1977	
1978	
1979	
1980	
1981	28.1 acres
1982	80 acres
1983	61.8 acres

Data not tabulated prior
to 1981

(c) Tabulation of all topsoil (new) stockpile volumes (see chart below)
and date of stockpiling.

SOIL TABULATION CHART

Area Affected (in mining sequence) (If more space is needed, please attach.)	<u>Area</u>			
	<u>1</u>	<u>2</u>	<u>3</u>	<u>etc.</u>
Acreage of Area	none			
Depth of Topsoil Removal (inches)	n/a			
Depth of Topsoil Replacement (inches)*	n/a			
Estimate of Topsoil Volume Salvaged (yd ³ or ac ft)	n/a			
Volume Actually Salvaged (yd ³ or ac ft)	n/a			
Volume Required for Reclamation (yd ³ or ac ft)	n/a			
Surplus or Deficit Volume (yd ³ or ac ft)	n/a			
Storage Status (short- or long-term)	n/a			

Soil Tabulation Chart (continued)

Area Affected (in mining sequence)	Area			
	1	2	3	etc.
Storage Location	near tailings dam			
Area Where Soil Has Been Used (if not stored)	none			
Running Total (all stockpiles) (yd ³ or ac ft)	250,000 Yd ³ (EST.)			
Short-term	none			
Long-term	all			

*Of previously stripped area recently reclaimed.

(d) Tabulation of all (newly removed) out-of-pit spoil volumes, date of placement and illustration on a map.

Area	Date	Acreage
Waste pile west of mill, total for 1980 through 1984		3 acres
		264,588 tons

(e) Tabulation of quantity of commodity mined.

	Commodity	Tonnage
(Mined)	2,501,013 oz. silver	300,096 tons
(Milled)	2,235,733 oz. silver	286,854 tons

(f) Description of any new construction during the report period with illustration on a map, including, but not limited to:

- Buildings and support facilities.
none

- Roads.

1/2 to 1 mile of access roads for diamond drill sites

3. Diversion ditches, collector ditches, interceptor ditches, etc.

A 50' diversion ditch was dug from P-12 pump to the existing
dewatering canal

4. Culverts.

none

5. Sediment ponds, containment ponds.

none

6. Monitoring sites (vegetative, air quality, surface subsidence,
surface water or ground water, etc.).

none

7. Topsoil stockpiles.

none

(g) Description of any environmental problem areas with a proposed plan
for mitigation and illustration on a map, including, but not limited to:

1. Pit stability problems.

none

2. Subsidence.

none

3. Accidental water discharge, dam failure, etc.

none

4. Slumping, sliding or erosion.

none

5. Revegetation problem areas.

none

6. Existence and location of unsuitable (toxic) overburden.

none

RECLAMATION:

(a) Tabulation of the acreage reclaimed during the report period with illustration on a map, distinguishing between:

1. Backfilled, graded and contoured areas.

Area

Acreage

none

2. Topsoiled areas.

Area

Acreage

none

3. Seeded areas.

<u>Area</u>	<u>Acreage</u>
none	

4. Reseeded areas (areas previously seeded, then seeded again).

<u>Area</u>	<u>Acreage</u>
none	

(b) Tabulation of total acreage reclaimed (seeded with permanent seed mix) to date by years with illustration on an updated map:

<u>Year</u>	<u>Acreage</u>
1975	
1976	
1977	
1978	
1979	
1980	
1981	✓ 140 acres
1982	✓ 40 acres
1983	✓ 75 acres
1984	0

No data tabulated
prior to 1981

(c) Description of the reclamation procedures used during the report period, including:

1. Average depth of topsoil applied.

none

2. Type of seed (species) used for seeding during the report period.

none

3. Date of seeding during the report period.

Spring none

Fall _____

4. Seeding procedures used.

(Hand broadcast or drilled or any other).

none

5. Rate of seed application.

Pounds Per Acre of Pure Live Seed (PLS) (if varied, please explain)

none

6. Type and rate of fertilizer applied.

none

7. Type and rate of mulch applied.

none

8. Rate of irrigation water applied, if any. Please describe any type of sprinkling, or water applied (water truck, etc.).

none

9. Revegetation test plot information.

(Cover, density, productivity, etc.)

none

10. Soil analysis results.

This data available in original Geotechnical Investigation. No data has been compiled since that report.

(d) Description of results of previous revegetation efforts, including:
(This should be done as applicable.)

1. Types (species) of seed that have germinated and are growing.
Clover, Alfalfa Crested Wheat, Russian Rye

2. Types (species) of seed that are not growing successfully.
none

3. Areas experiencing problems with weeds and weed types.
none

4. Significant erosional problems.
none

5. Areas of unsuitable overburden on the surface as related to revegetation failure.
none

6. Procedures used or proposed to correct these problems.
none

7. Acreage and dates of release (upon inspection by the State) of revegetated areas.

<u>Area</u>	<u>Date</u>	<u>Acreage</u>
none		

8. Results of soil analysis.
none

(e) Summarization of the reclamation costs incurred during the report period, including itemized costs for each operation (i.e., grading, topsoil replacement, seeding, etc.) and for each type of disturbance (i.e., spoil, haul roads, facilities removal, etc.) on a per acre basis.

	<u>Acres</u>	<u>Cost/Acre</u>
1. Grading	n/a	
2. Backfilling	n/a	
3. Contouring	n/a	
4. Topsoil Replacement	n/a	
5. Seeding	n/a	
A. Seedbed Preparation	n/a	
B. Mulch	n/a	
C. Fertilizer	n/a	
D. Seed	n/a	
6. Other	n/a	

BOND INFORMATION:

- A. An updated bond estimate should be included, if required in the Division's approval of the Mining and Reclamation Plan (MRP) or if changes to the MRP have occurred, including a detailed itemization of actual/estimated reclamation costs as outlined in the RECLAMATION section above. The date of the release of revegetated areas from further responsibility for a partial bond release, if applicable, should also be included.

	<u>Amount</u>	<u>Type</u>	<u>Date Posted</u>
Present Bond	\$119,574.00	Irrevocable Letter of Credit	Amended Jan. 23, 1985

Increased disturbance, if any:

none

Increased Bond Amount (attached reclamation estimate).

B. Bond release.

<u>Acres</u>	<u>Bond Amount Released</u>	<u>Date</u>
<u>none</u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>

ADDITIONAL INFORMATION:

Supply any additional information as requested by the Division related to:

- (a) Permit stipulations (status).
- (b) Other special conditions (status).

APPENDIX I

ANNUAL REPORT MAPS

1. Maps must be clear and legible contour maps or recent aerial photos. The scale should be 1 inch = 500 feet to adequately show topographic features.
2. Map sheets should be of a reasonable size, not to exceed 48 inches on a side.
3. Maps must have a title block with:
 - A. Map title.
 - B. Name and address of permittee.
 - C. Permit and amendment numbers.
 - D. Annual report period.
 - E. Scale, north arrow, contour interval, date of photography, etc.
4. All maps must show:
 - A. Legal subdivisions.
 - B. Permit area boundary clearly shown and labelled.
 - C. Amendment areas clearly shown and labelled.
 - D. Contour features.
5. The following features should all be clearly identified:
 - A. Topsoil stockpiles (numbered and with volumes).
 - B. Settling ponds and sediment control structures.
 - C. Haul roads.
 - D. Pits identified by location, name, number, etc.
 - E. Kamps (numbered).
 - F. Out-of-pit spoil dumps.
 - G. All waste disposal sites including, but not limited to:
 1. Landfill sites.
 2. Carbonaceous waste dumps.
 - H. Diversion ditches.
 - I. Monitoring sites.
6. All areas to be affected by mining and reclamation in the coming year should be outlined and labelled.



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

May 10, 1985

Mr. Donald W. Morrison
Hecla Mining Company
P. O. Box 308
Enterprise, Utah 84725

Dear Mr. Morrison:

RE: Receipt of Annual Operations and Progress Report (MR-3),
Escalante Silver Mine, ACT/021/004, Iron County, Utah

Please be informed that the Division of Oil, Gas and Mining has received your Annual Operations and Progress Report (Form MR-3). Your cooperation in submitting this information in a timely manner is appreciated.

Best regards,

Ronald W. Daniels
Associate Director, Mining

PGL/btb
0122R-38

This page is a reference page used to track documents internally for the Division of Oil, Gas and Mining

Mine Permit Number 10210004 Mine Name Escalante Silver
Operator Hecla mining co Date MARCH 26, 1985
TO _____ FROM _____

☐ CONFIDENTIAL ☐ BOND CLOSURE ☐ LARGE MAPS ☒ EXPANDABLE
☐ MULTIPUL DOCUMENT TRACKING SHEET ☐ NEW APPROVED NOI
☐ AMENDMENT ☐ OTHER _____

Description

YEAR-Record Number

☐ NOI ☒ Incoming ☐ Outgoing ☐ Internal ☐ Superceded

19884 Annual Report

☐ NOI ☐ Incoming ☐ Outgoing ☐ Internal ☐ Superceded

☐ NOI ☐ Incoming ☐ Outgoing ☐ Internal ☐ Superceded

☐ NOI ☐ Incoming ☐ Outgoing ☐ Internal ☐ Superceded

☐ TEXT/ 81/2 X 11 MAP PAGES ☐ 11 X 17 MAPS ☐ LARGE MAP

COMMENTS: _____

CC: _____
